Vessel Troubleshooting Guide

Problem	*Possible Cause(s)*	*Corrective Action*
Rupture membrane of Advanced Composite Vessel ruptures	Excessive amount of reactive organic sample	Allow vessels to cool and remove from system. Discontinue digestion program. Observe for a reaction when sample and acid are added to the vessel. Conduct predigest without microwave heating for 15 - 20 minutes. Allow reaction to subside prior to sealing vessel and performing closed vessel microwave digestion. Polymers, food and biological tissue samples may require sulfuric acid pre-char step prior to closed vessel microwave digestion.
	Microwave Transparent Valve in pressure sensing line of control vessel is closed	Allow vessels to cool and remove from system. Do not continue digestion program.
Relief valve of Teflon® PFA vessel vents	Excessive amount of reactive organic compounds in wastewater or TCLP extract	Allow vessels to cool and remove from system. Discontinue digestion program. Conduct predigest without microwave heating for 15 - 20 minutes. Allow reaction to subside prior to sealing vessel and performing closed vessel microwave digestion.
	Microwave Transparent Valve in pressure sensing line of control vessel is closed	Allow vessels to cool and remove the vessel(s) which vented. Turn handle of microwave transparent valve to open position; restart digestion program and monitor LCD for pressure rise.
	Two-way valve on left side of instrument is in the incorrect (neutral) position	Allow vessels to cool and remove from system. Do not continue digestion program. Replace vessels which vented. Turn screw handle of two-way valve to open position.

Vessel Troubleshooting Guide (Continued)

Problem	*Possible Cause(s)*	*Corrective Action*
Pressure sensing tube has come loose from control vessel or microwave trans-parent valve	Tubing is not fully inserted and sealed into mating fitting by the ferrule nut	Allow vessels to cool and remove control vessel and check sample volume to ensure starting amount is present. If sample loss has occurred, replace sample in control vessel to equivalent amount in other vessels. Check to see that pressure sensing line is completely filled with water. Flush and fill with additional water if loss has occurred. Reconnect pressure sensing line by loosening ferrule nut and fully inserting tubing. Hand tighten ferrule nut, then tighten half a turn using a wrench.
	Microwave Transparent Valve in pressure sensing line of control vessel is closed, causing tubing to blow the seal at fitting	Allow vessels to cool. Remove control vessel and check sample volume to ensure starting amount is present. If sample loss has occurred, replace sample in control vessel to equivalent amount in other vessels. Reconnect pressure sensing line by loosening ferrule nut and fully inserting tubing. Hand tighten ferrule nut, and then tighten half a turn using a wrench.